

# Material Scan Plots

pCDR planning

Hcal Meeting – Sept 22, 2015

Megan Connors

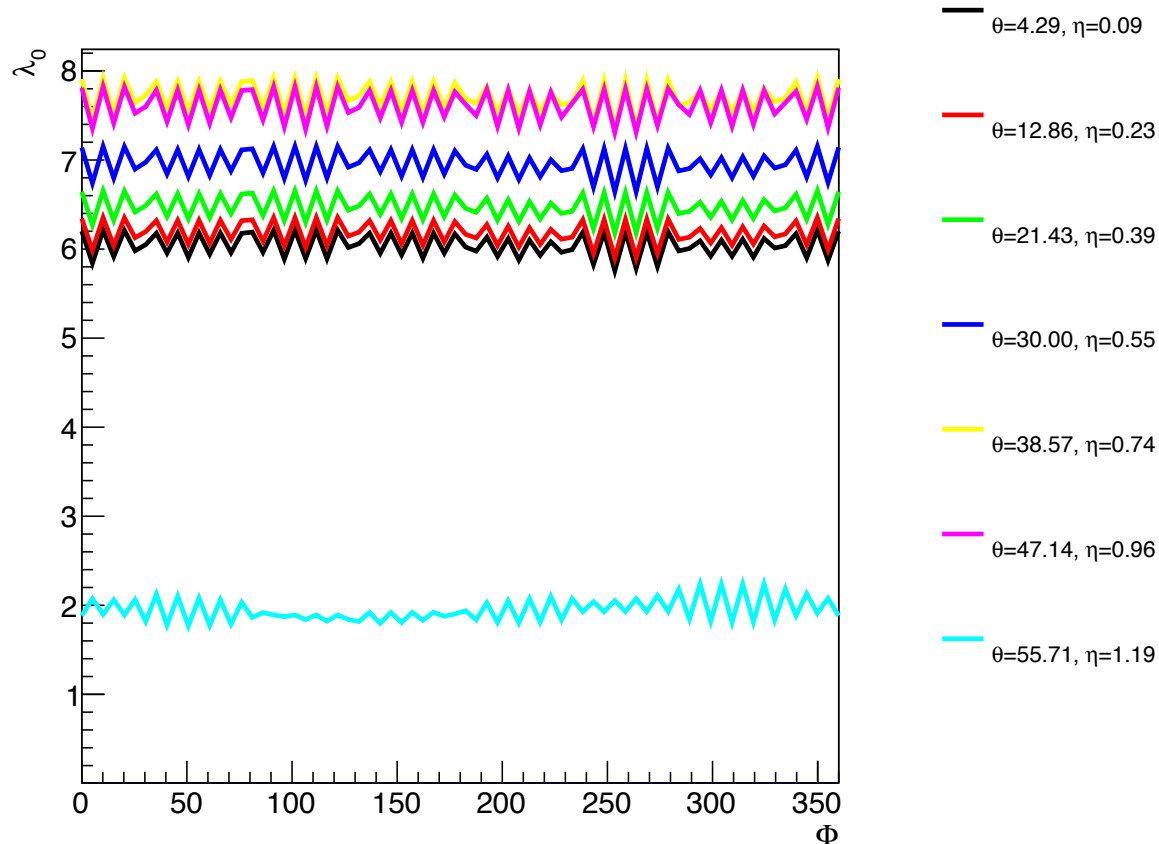
# pCDR Plots

- Planning plots for the Hcal section of the pCDR

The message	the axes/columns	to do	who
shower simulation	event display	run macro; display takes time	Sarah
material scan vs phi	lambda vs phi	done with emcal/hcals/mag	Megan
material scan for different inner hcal tilt angles	lambda vs theta	done with emcal/hcals/mag	Megan
material scan for different inner hcal tilt angles	lambda vs theta	Need tilting of outter hcal	Chris/Megan
energy resolution for single particle	plot w/fit & table of sigma and tails	analyze tails	Abhisek/John L
energy resolution for tilt scan inner and outer	plot w/fit & table of sigma and tails	Need tilting of outter hcal	Abhisek/John L
sampling fraction evalution	sampling fraction vs LCG		John L
sampling fraction with gratings	sampling fraction vs LCG		John L
sampling fraction effect on Energy resolution	table of sigma and tails	analyze fits	John L
linearity			
dynamic range			John H
e-pi separation			Jin?
e/h			Jin?

# Material Scan vs phi

- Includes Emcal, inner and outer Hcals plus magnet
- Inner tilt angle based on  $N_{\text{cross}}=4$



# Varied the inner hcal tilt angle

- Varied the tilt angle for 1, 2, 3 and 4 crossings
- Variation on  $\lambda$  very small

